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Introduction

This document covers the specification of the Lynq2track Server SOAP Dispatch Web Service API.

Who should read this?

Developers aiming to build applications which need to create and dispatch jobs to Lynq2track Server.

What can I do with this?

Create dispatch jobs in Lynq2track Server applications, find information on workers that are eligible to complete these jobs and dispatch the jobs to those workers. Track status changes in ongoing jobs, complete and delete jobs or recover historical job information for display in external applications.

SOAP 1.1 Protocol specifications

This API is fully based on SOAP protocol.

See: <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

Lynq2track Server SOAP Dispatch Web Service API 1.1

This section describes the web methods and entities of the Lynq2track Server SOAP Dispatch Web Service API 1.1.

Entities description

Here are the different business entities returned by the Dispatch service briefly described.

AssignableWorker

An Assignable Worker is an object which contains a numeric Lynq2track User ID and some information about the suitability of the specified user for a given job.

Job

A Job is the core entity created and updated by the Lynq2track Server SOAP Dispatch Web Service API. It represents a job in Lynq2track Server and will be returned by the various methods that are used to find existing jobs and check for updates.

Route

A Route is an entity that is created to hold and organise collections of related Jobs. A Route can be assigned to a worker and dispatched in the same way as a standalone Job. When a Route is dispatched or deleted, all of it's contained Jobs are dispatched or deleted along with the Route.

RouteJob

A RouteJob is an entity created to represent a Job that is contained within a Route. RouteJobs are more simple and contain less properties than a standalone Job as they are intended to exist only within the context of their parent Route. RouteJobs cannot be manipulated by the web service calls that are intended for standalone Jobs with the exception of CompleteJob.

Location

A Location represents a position with address information.

JobState

A Job State indicates the state that a given job is in. The possible states are: Unassigned, Assigned, AssignedPending, Active, ActivePending, Completed, CompletedPending, Deleted, DeletedPending and Planned.

Worker

A worker represents a user which has been assigned to a Job. This Worker entity contains more information than a normal user about it's progress toward completing the Job it has been assigned to.

Dispatch Web Service

Description

This web service contains methods to create, dispatch and monitor dispatched jobs in Lynq2track Server.

URL: <http://localhost/Lynq2track/Services/Dispatch.asmx>

Note : All methods in this web service require the consumer to provide an encrypted session ID. Obtain one of these for your session by using the Login method of the Lynq2track Server SOAP Directory Web Service.

Web Methods

CreateJob

Description

Create a new Dispatch Job by providing a job location, description and scheduled time.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D 57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used for dispatch	Yes
dblLatitude	double	2	Latitude of the job location	Yes
dblLongitude	double	2	Longitude of the job location	Yes
strDescription	string	Deliver pizza	Description of the job	Yes
dtDate	dateTime	2007-10-09T12:00:00Z	Date and time of the job	No

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/CreateJob"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
```

```

    <CreateJob
      xmlns="http://lynq2track.online/services/"
    "> <strSessionID>string</strSessionID>
    <iApplicationID>int</iApplicationID>
    <dblLatitude>double</dblLatitude>
    <dblLongitude>double</dblLongitude>
    <strDescription>string</strDescription>
    <dtDate>dateTime</dtDate>
  </CreateJob>
</soap:Body>
</soap:Envelope>

```

Typical Request

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateJob xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <dblLatitude>12</dblLatitude>
      <dblLongitude>12</dblLongitude>
      <strDescription>Deliver
pizza</strDescription> <dtDate>2007-10-
09T12:00:00Z</dtDate>
    </CreateJob>
  </soap:Body>
</soap:Envelope>

```

Typical Response

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateJobResponse
      xmlns="http://lynq2track.online/services/">
      <CreateJobResult>1</CreateJobResult>
    </CreateJobResponse>
  </soap:Body>
</soap:Envelope>

```


DeleteJob

Description

Delete an existing Dispatch Job by providing it's Job ID.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D 57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used for dispatch	Yes
iJobId	int	1	ID of the job to be deleted	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.aspx HTTP/1.1
Host: localhost
```

```
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/DeleteJob"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteJob
      xmlns="http://lynq2track.online/services/"
      > <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>
    </DeleteJob>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteJob xmlns="http://lynq2track.online/services/"
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
      sionID> <iApplicationID>4</iApplicationID>
      <iJobId>1</iJobId>
    </DeleteJob>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteJobResponse
      xmlns="http://lynq2track.online/services/" />
    </soap:Body>
</soap:Envelope>
```

GetAssignableWorkers

Description

Get details on all workers that are eligible to be dispatched to a Job. Supplying a job ID will return an array of Assignable Workers containing information on eligible workers' suitability for the job.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used	Yes
			for dispatch	
iJobId	int	1	ID of the job for which to find Assignable Workers	Yes

Request format

HTTP Headers

```
POST
/ggs/services/Lynq2track.Dispatch.Service/API/Dispatch.asmx
HTTP/1.1 Host: localhost
Content-Type: text/xml;
charset=utf-8 Content-Length:
length
SOAPAction: "http://lynq2track.online/services/GetAssignableWorkers"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAssignableWorkers
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>

    </GetAssignableWorkers>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAssignableWorkers
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <iJobId>1</iJobId>
    </GetAssignableWorkers>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAssignableWorkersResponse
      xmlns="http://lynq2track.online/services/">
      <GetAssignableWorkersResult>
        <AssignableWorker>
          <UserId>7</UserId>
          <DistanceToJob>123</DistanceToJob>
          <HasActiveJob>false</HasActiveJob>
          <Name>Bob</Name>
          <Username>bob</Username>
          <UncompletedJobCount>0</UncompletedJobCount>
          <isCurrentlyOnline>false</isCurrentlyOnline>
        </AssignableWorker>
        <AssignableWorker>
          <UserId>9</UserId>
          <DistanceToJob>12</DistanceToJob>
          <HasActiveJob>true</HasActiveJob>
          <Name>Bobette</Name>
          <Username>bobette</Username>
          <UncompletedJobCount>3</UncompletedJobCount>
          <isCurrentlyOnline>true</isCurrentlyOnline>
        </AssignableWorker>
      </GetAssignableWorkersResult>
    </GetAssignableWorkersResponse>
  </soap:Body>
</soap:Envelope>
```

DispatchJob

Description

Dispatch a job to a worker by providing a Job ID and a Worker ID.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used for dispatch	Yes
iJobId	int	1	ID of the job to be dispatched	Yes
iWorkerId	int	1	ID of the worker to dispatch the job to	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/DispatchJob"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchJob
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>
      <iWorkerId>int</iWorkerId>
    </DispatchJob>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchJob xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
sionID> <iApplicationID>4</iApplicationID>
      <iJobId>1</iJobId>
      <iWorkerId>1</iWorkerId>
    </DispatchJob>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchJobResponse
      xmlns="http://lynq2track.online/services/" />
  </soap:Body>
</soap:Envelope>
```

ActivateJob

Description

Set an existing job to the Active state.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used for dispatch	Yes
iJobId	int	1	ID of the job to be activated	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/ActivateJob"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ActivateJob
      xmlns="http://lynq2track.online/services/"
      > <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>
    </ActivateJob>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ActivateJob xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSe
ssionID> <iApplicationID>4</iApplicationID>
      <iJobId>1</iJobId>
    </ActivateJob>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ActivateJobResponse
      xmlns="http://lynq2track.online/services/" />
  </soap:Body>
</soap:Envelope>
```

CompleteJob

Description

Set an existing job to the Completed state.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes

iApplicationID	int	4	ID of application being used for dispatch	Yes
iJobId	int	1	ID of the job to be completed	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/CompleteJob"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CompleteJob
      xmlns="http://lynq2track.online/services/"
      > <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>
    </CompleteJob>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CompleteJob xmlns="http://lynq2track.online/services/"
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSe
ssionID>
      <iApplicationID>4</iApplicationID>
      <iJobId>1</iJobId>
    </CompleteJob>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CompleteJobResponse
      xmlns="http://lynq2track.online/services/" />
  </soap:Body>
</soap:Envelope>
```

GetJobs

Description

Get all jobs that exist in the specified application.

Note: Do not use this operation as part of your application's general workflow. As more jobs are added to the server it will become extremely expensive to make this call. A much better alternative is *GetAllChanges*.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1 Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetJobs"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetJobs
      xmlns="http://lynq2track.online/services/"
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
    </GetJobs>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetJobs xmlns="http://lynq2track.online/services/"
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSessionID>
      <iApplicationID>4</iApplicationID>
    </GetJobs>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetJobsResponse
      xmlns="http://lynq2track.online/services/">
      <GetJobsResult>
        <Job>
          <ID>1</ID>
          <Description>Deliver pizza</Description>
          <Comment/>
          <ActiveWorkersAllowed>1</ActiveWorkersAllowed>
          <StartLocation>
            <Location>
              <Position>
                <Lat>135.6301</Lat>
                <Lon>112.50195</Lon>
                <Alt>0</Alt>
              </Position>
              <CountryName>Sweden</CountryName>
              <AdministrativeAreaName>Dalarnas län</AdministrativeAreaName>
              <SubAdministrativeAreaName/>
              <CityName/>
              <PostalCodeNumber>65671</PostalCodeNumber>
              <StreetName>341</StreetName>
              <StreetBox/>
              <Address>341, 65671 Dalarnas län, Sweden</Address>
            </Location>
          </StartLocation> <Created>2015-04
01T13:19:29Z</Created>
          <Assigned xsi:nil="true"/> <Activated
xsi:nil="true"/> <Completed
xsi:nil="true"/>
          <Updated>2015-04-
01T13:19:29Z</Updated> <Scheduled
xsi:nil="true"/>
          <CreatorID>0</CreatorID>
          <ApplicationID>4</ApplicationID>
          <State>Unassigned</State>
          <Workers/>
          <Order
xsi:nil="true"/>
        </Job>
        <Job>
          <ID>2</ID>
          <Description>Fix leaking
pipe</Description> <Comment>Valve in
pipe replaced</Comment>
          <ActiveWorkersAllowed>1</ActiveWorkersAl
lowed> <StartLocation>
            <Location>
              <Position>
```

```
<Lat>157.90465</Lat>
<Lon>122.83984</Lon>
<Alt>0</Alt>
</Position>
<CountryName>Estonia</CountryName>
<AdministrativeAreaName>Järva sten</AdministrativeAreaName>
<SubAdministrativeAreaName>Tuh
Parish</SubAdministrativeAreaName> <CityName />

<PostalCodeNumber>53412</PostalCodeNu
mber> <StreetName>Ganna-Teeki-
Huuksi</StreetName> <StreetBox />
<Address>Ganna-Teeki-Huuksi, 53412 Järva sten,
Estonia</Address> </Location>
</StartLocation> <Created>2015-04-
01T13:40:09Z</Created>
<Assigned>2015-04-
01T13:40:47Z</Assigned>
<Activated>2015-04-
01T13:40:53Z</Activated>
<Completed>2015-04-
01T13:40:53Z</Completed>
<Updated>2015-04-
01T13:41:01Z</Updated> <Scheduled
xsi:nil="true" />
<CreatorID>0</CreatorID>
<ApplicationID>0</ApplicationID>
<State>Completed</State>
<Workers>
  <Worker>
    <ID>9</ID>
    <Name>Worker</Name>
    <JobID>2</JobID>
    <State>Completed</State>
    <ModInfo>Unmodified</ModInfo>
    <NewState>Completed</NewSt
ate> <ETATime
xsi:nil="true" />
    <ETADistance
xsi:nil="true" />
    <CommandID xsi:nil="true"
/> <DispatcherID
xsi:nil="true" />
  </Worker>
</Workers>
<Order
xsi:nil="true" />
</Job>
</GetJobsResult>
</GetJobsResponse>
</soap:Body>
</soap:Envelope>
```

GetAllChanges

Description

Get all jobs that have been created or updated within the last week. This is in most cases a better operation to perform than GetJobs which will become very expensive to call.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetAllChanges"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAllChanges
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
    </GetAllChanges>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetAllChanges
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
sionID> <iApplicationID>4</iApplicationID>
    </GetAllChanges>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArrayOfJob
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
  xmlns="http://lynq2track.online/services/">
  <Job>
    <ID>1</ID>
    <Description>Deliver
pizza</Description> <Comment/>
    <ActiveWorkersAllowed>1</ActiveWorkersA
llowed> <StartLocation>
      <Location>
        <Position>
          <Lat>135.6301</Lat>
          <Lon>112.50195</Lon>
          <Alt>0</Alt>
        </Position>
        <CountryName>Sweden</CountryName>
        <AdministrativeAreaName>Dalarnas
län</AdministrativeAreaName>
        <SubAdministrativeAreaName/>
        <CityName/>
        <PostalCodeNumber>65671</PostalCodeNumber>
        <StreetName>341</StreetName>
        <StreetBox/>
        <Address>341, 65671 Dalarnas län,
Sweden</Address> </Location>
      </StartLocation> <Created>2015-
04-01T13:19:29Z</Created>
      <Assigned xsi:nil="true"/>
      <Activated xsi:nil="true"/>
      <Completed xsi:nil="true"/>
      <Updated>2015-04-
01T13:19:29Z</Updated>
      <Scheduled xsi:nil="true"/>
      <CreatorID>0</CreatorID>
      <ApplicationID>4</ApplicationID>
      <State>Unassigned</State>
      <Workers/>
      <Order
xsi:nil="true"/>
    </Job>
  </ArrayOfJob>
```

GetChangesSince

Description

Get all jobs that have been created or updated since the provided date/time parameter.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
dtTime	dateTime	2007-10-09T12:00:00Z	The time starting from which to look for job updates	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetChangesSince"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesSince xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <dtTime>dateTime</dtTime>
    </GetChangesSince>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesSince xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSessionID>
      <iApplicationID>4</iApplicationID> <dtTime>2007-10-
09T12:00:00Z</dtTime>
    </GetChangesSince>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArrayOfJob xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://lynq2track.online/services/">
  <Job>
    <ID>1</ID>
    <Description>Deliver pizza</Description> <Comment/>
    <ActiveWorkersAllowed>1</ActiveWorkersAllowed>
    <StartLocation>
      <Location>
        <Position>
          <Lat>135.6301</Lat>
          <Lon>112.50195</Lon>
          <Alt>0</Alt>
        </Position>
        <CountryName>Sweden</CountryName> <AdministrativeAreaName>Dalarnas
län</AdministrativeAreaName> <SubAdministrativeAreaName/>
        <CityName/>
        <PostalCodeNumber>65671</PostalCodeNumber>
        <StreetName>341</StreetName>
        <StreetBox/>
        <Address>341, 65671 Dalarnas län, Sweden</Address>
      </Location>
    </StartLocation> <Created>2015-04-
01T13:19:29Z</Created>
    <Assigned xsi:nil="true"/> <Activated
xsi:nil="true"/> <Completed xsi:nil="true"/>
    <Updated>2015-04-
01T13:19:29Z</Updated> <Scheduled
xsi:nil="true"/>
    <CreatorID>0</CreatorID>
    <ApplicationID>4</ApplicationID>
    <State>Unassigned</State>
    <Workers/>
    <Order
xsi:nil="true"/>
  </Job>
</ArrayOfJob>
```


GetChangesForUsers

Description

Get all jobs that have been created or updated within the last week for the supplied array of user IDs.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
arrIds	array of ints	<int>1</int> <int>2</int>	An array of user IDs to check for changes	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.aspx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetChangesForUsers"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsers
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <arrIds>
        <int>int</int>
        <int>int</int>
      </arrIds>
    </GetChangesForUsers>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?><soap:Envelope
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsers xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSessionID>
      <iApplicationID>4</iApplicationID>
      <arrIds>
        <int>1</int>
        <int>2</int>
      </arrIds>
    </GetChangesForUsers>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsersResponse
      xmlns="http://lynq2track.online/services/">
      <GetChangesForUsersResult>
        <Job>
          <ID>1</ID>
          <Description>Deliver pizza</Description>
          <Comment/>
          <ActiveWorkersAllowed>1</ActiveWorkersAllowed>
          <StartLocation>
            <Location>
              <Position>
                <Lat>135.6301</Lat>
                <Lon>112.50195</Lon>
                <Alt>0</Alt>
              </Position>
              <CountryName>Sweden</CountryName>
              <AdministrativeAreaName>Dalarnas län</AdministrativeAreaName>
              <SubAdministrativeAreaName/>
              <CityName/>
              <PostalCodeNumber>65671</PostalCodeNumber>
              <StreetName>341</StreetName>
              <StreetBox/>
              <Address>341, 65671 Dalarnas län, Sweden</Address>
            </Location>
          </StartLocation> <Created>2015-04-
01T13:19:29Z</Created> <Assigned
xsi:nil="true"/>
          <Activated xsi:nil="true"/> <Completed
xsi:nil="true"/> <Updated>2015-04-
01T13:19:29Z</Updated> <Scheduled
xsi:nil="true"/>
```

```
        <CreatorID>0</CreatorID>
        <ApplicationID>4</ApplicationID>
        <State>Unassigned</State>
        <Workers/>
        <Order xsi:nil="true"/>
    </Job>
</GetChangesForUsersResult>
</GetChangesForUsersResponse>
</soap:Body>
</soap:Envelope>
```

GetChangesForUsersSince

Description

Get all jobs that have been created or updated since the supplied date/time for the supplied array of user ids.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
dtTime	dateTime	2007-10-09T12:00:00Z	The time starting from which to look for job updates	Yes
arrIds	array of ints	<int>1</int> <int>2</int>	An array of user IDs to check for changes	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx
HTTP/1.1 Host: localhost
Content-Type: text/xml;
charset=utf-8 Content-Length:
length
SOAPAction: "http://lynq2track.online/services/GetChangesForUsersSince"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsersSince
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <dtTime>dateTime</dtTime>

      <arrIds>
        <int>int</int>
        <int>int</int>
      </arrIds>
    </GetChangesForUsersSince>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsersSince
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <dtTime>2007-10-09T12:00:00Z</dtTime>
      <arrIds>
        <int>1</int>
        <int>2</int>
      </arrIds>
    </GetChangesForUsersSince>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetChangesForUsersSinceResponse
      xmlns="http://lynq2track.online/services/">
      <GetChangesForUsersSinceResult>
        <Job>
          <ID>1</ID>
          <Description>Deliver pizza</Description>
          <Comment/>
          <ActiveWorkersAllowed>1</ActiveWorkersAllowed>
          > <StartLocation>
            <Location>
              <Position>
                <Lat>135.6301</Lat>
                <Lon>112.50195</Lon>
                <Alt>0</Alt>
              </Position>
              <CountryName>Sweden</CountryName>
              <AdministrativeAreaName>Dalarnas
län</AdministrativeAreaName> <SubAdministrativeAreaName/>
              <CityName/>
              <PostalCodeNumber>65671</PostalCodeNumber>
              <StreetName>341</StreetName>
              <StreetBox/>
              <Address>341, 65671 Dalarnas län,
Sweden</Address> </Location>
            </StartLocation> <Created>2015-04-
01T13:19:29Z</Created> <Assigned
xsi:nil="true"/>
            <Activated xsi:nil="true"/> <Completed
xsi:nil="true"/> <Updated>2015-04-
```

```
01T13:19:29Z</Updated> <Scheduled
xsi:nil="true"/>
<CreatorID>0</CreatorID>
<ApplicationID>4</ApplicationID>
<State>Unassigned</State>
<Workers/>
<Order
xsi:nil="true"/> </Job>
</GetChangesForUsersSinceResult>
</GetChangesForUsersSinceResponse>
</soap:Body>
</soap:Envelope>
```

SetComment

Description

Get all jobs that have been created or updated since the supplied date/time for the supplied array of user Ids.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iJobId	int	12345	ID of the job on which to set the comment	Yes
strComment	string	Completed	The comment text that should be set	Yes

Request format

HTTP Headers

```
POST
/ggs/services/Lynq2track.Dispatch.Service/API/Dispatch.asmx
HTTP/1.1 Host: localhost
Content-Type: text/xml;
charset=utf-8 Content-Length:
length
SOAPAction: "http://lynq2track.online/services/SetComment"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetComment
      xmlns="http://lynq2track.online/services/"
      > <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iJobId>int</iJobId>
      <strComment>string</strComment>
    </SetComment>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetComment xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
sionID> <iApplicationID>4</iApplicationID>
      <iJobId>12345</iJobId>
      <strComment>Completed</strComment>
    </SetComment>
  </soap:Body>
</soap:Envelope>
```


Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetCommentResponse
      xmlns="http://lynq2track.online/services/" />
  </soap:Body>
</soap:Envelope>
```

CreateRoute

Description

Create a Route by providing a name, optional notes, optional colour, and fill it with Jobs as described by the given RouteJobs entities.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
strName	string	Delivery for InGen	The name of the Route to be created	Yes
strNotes	string	Sale by Jeremy	Some notes to attach to the route (for operators)	No
strColour	string	#ff0000	A valid CSS colour in hexadecimal or name format to apply to the route See: https://drafts.csswg.org/css-color-3/	No
arrRouteJobs	Array of RouteJobs	See <i>Typical Request</i>	An array of RouteJob entities. Routes should contain at least two RouteJobs	Yes. Min 2 RouteJobs.
scheduledDispatchingDate	DateTime nullable	2016-09-13T16:07:00	To set a delayed dispatching Date. See DelayedRouteDispatching method for activation of the task	Can be null

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/CreateRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <scheduledDispatchingDate>DateTime</scheduledDispatching
Date> <strName>string</strName>
      <strNotes>string</strNotes>
      <strColour>string</strColour>
      <arrRouteJobs>
        <RouteJob>
          <dblLatitude>double</dblLatitude>
          <dblLongitude>double</dblLongitude>
          <strDescription>string</strDescription>
          <dtDate>dateTime</dtDate>
        </RouteJob>
        <RouteJob>
          <dblLatitude>double</dblLatitude>
          <dblLongitude>double</dblLongitude>
          <strDescription>string</strDescription>
          <dtDate>dateTime</dtDate>
        </RouteJob>
      </arrRouteJobs>
    </CreateRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateRoute xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSessionID>
      <iApplicationID>4</iApplicationID>
      <strName>Delivery for InGen</strName>
      <strNotes>Sale by Jeremy</strNotes>
      <strColour>#ff0000</strColour>
      <scheduledDispatchingDate>2016-09-13T16:07:00</scheduledDispatchingDate>
      <arrRouteJobs>
        <RouteJob>
          <dblLatitude>59.326462</dblLatitude>
          <dblLongitude>18.071883</dblLongitude>
          <strDescription>Collect shipment</strDescription>
          <dtDate>2015-04-01T13:19:29Z</dtDate>
        </RouteJob>
        <RouteJob>
          <dblLatitude>59.311681</dblLatitude>
```

```
        <dblLongitude>18.087504</dblLongitude>
        <strDescription>Deliver shipment</strDescription>
        <dtDate>2015-04-01T13:19:29Z</dtDate>
    </RouteJob>
</arrRouteJobs>
</CreateRoute>
</soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
    <soap:Body>
        <CreateRouteResponse
            xmlns="http://lynq2track.online/services/">
            <CreateRouteResult>1</CreateRouteResult>
        </CreateRouteResponse>
    </soap:Body>
</soap:Envelope>
```

DeleteRoute

Description

Delete an existing Dispatch Route by providing it's Route ID.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application being used for dispatch	Yes
iRouteId	int	1	ID of the route to be deleted	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/DeleteRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
    </DeleteRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRoute xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
sionID> <iApplicationID>4</iApplicationID>
      <iRouteId>1</iRouteId>
    </DeleteRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DeleteRouteResponse
      xmlns="http://lynq2track.online/services/" />
    </soap:Body>
  </soap:Envelope>
```

DispatchRoute

Description

Dispatch a route and it's contained Jobs to a worker by providing a Route ID and a Worker ID.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iRouteId	int	1	ID of the route to dispatch	Yes
iWorkerId	int	1	ID of the worker to dispatch the route to	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/DispatchRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
      <iWorkerId>int</iWorkerId>

    </DispatchRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <iRouteId>1</iRouteId>
      <iWorkerId>1</iWorkerId>
    </DispatchRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <DispatchRouteResponse
      xmlns="http://lynq2track.online/services/" />
  </soap:Body>
</soap:Envelope>
```

GetRoute

Description

When a Job belongs to a Route it contains an integer RouteId property. This call can be used to recover the associated information that Lynq2track holds on the Route for UI display purposes.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iRouteId	int	1	ID of route to recover	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRoute
      xmlns="http://lynq2track.online/services
      /"> <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
    </GetRoute>
  </soap:Body>
</soap:Envelope>
```


Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRoute xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <iRouteId>1</iRouteId>
    </GetRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRouteResponse
      xmlns="http://lynq2track.online/services/">
      <GetRouteResult>
        <ID>1</ID> <DateCreated>2015-04-
01T13:19:29Z</DateCreated>
        <Colour>#ff00ff </Colour>
        <Name>First Route</Name>
        <Notes>Make sure to knock on the door as the doorbell is
broken</Notes> <Order>0</Order>
        <ContainedJobs>
          <int>1</int>
          <int>2</int>
        </ContainedJobs>
      </GetRouteResult>
    </GetRouteResponse>
  </soap:Body>
</soap:Envelope>
```

CreateOptimalRoute

Description

Create a Route by providing a name, optional notes, optional colour, and fill it with Jobs as described by the given RouteJobs entities. The order of the Jobs are decided by an algorithm, that optimises the travel time of the Route.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
strName	string	Delivery for InGen	The name of the Route to be created	Yes
strNotes	string	Sale by Jeremy	Some notes to attach to the route (for operators)	No
strColour	string	#ff0000	A valid CSS colour in hexadecimal or name format to apply to the route See:	No

			https://drafts.csswg.org/css-color-3/	
arrRouteJobs	Array of RouteJobs	See <i>Typical Request</i>	An array of RouteJob entities. Routes should contain at least two RouteJobs	Yes. Min 2 RouteJobs.

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/CreateOptimalRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateOptimalRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <strName>string</strName>
      <strNotes>string</strNotes>
      <strColour>string</strColour>
      <arrRouteJobs>
        <RouteJob>
          <dblLatitude>double</dblLatitude>
          <dblLongitude>double</dblLongitude>
          <strDescription>string</strDescription>
          <dtDate>dateTime</dtDate>
        </RouteJob>
        <RouteJob>
          <dblLatitude>double</dblLatitude>
          <dblLongitude>double</dblLongitude>
          <strDescription>string</strDescription>
          <dtDate>dateTime</dtDate>
        </RouteJob>
      </arrRouteJobs>
    </CreateOptimalRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateOptimalRoute
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes-
sionID> <iApplicationID>4</iApplicationID>
      <strName>Delivery for
      InGen</strName> <strNotes>Sale
      by Jeremy</strNotes>
      <strColour>#ff0000</strColour>
      <arrRouteJobs>
        <RouteJob>
          <dblLatitude>59.326462</dblLatitude>
          <dblLongitude>18.071883</dblLongitude>
          <strDescription>Collect
            shipment</strDescription> <dtDate>2015-04-
            01T13:19:29Z</dtDate>
        </RouteJob>
        <RouteJob>
          <dblLatitude>59.311681</dblLatitude>
          <dblLongitude>18.087504</dblLongitude>
          <strDescription>Deliver
            shipment</strDescription> <dtDate>2015-04-
            01T13:19:29Z</dtDate>
        </RouteJob>
      </arrRouteJobs>
    </CreateOptimalRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <CreateOptimalRouteResponse
      xmlns="http://lynq2track.online/services/">
      <CreateOptimalRouteResult>1</CreateOptimalRouteResult>
    </CreateOptimalRouteResponse>
  </soap:Body>
</soap:Envelope>
```

OptimiseRoute

Description

Optimise an existing Route, provided by ID. The optimiser searches for the optimal order of the Route's Jobs, trying to reduce the travel time of the Route.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iRouteId	int	12	ID of the Route to optimise	Yes

Request format

HTTP Headers

```
POST
/ggs/services/Lynq2track.Dispatch.Service/API/Dispatch.asmx
HTTP/1.1 Host: localhost
Content-Type: text/xml;
charset=utf-8 Content-Length:
length
SOAPAction: "http://lynq2track.online/services/OptimiseRoute"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <OptimiseRoute xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
    </OptimiseRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <OptimiseRoute xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSessionID>
      <iApplicationID>4</iApplicationID>
      <iRouteId>12</iRouteId>
    </OptimiseRoute>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <OptimiseRouteResponse xmlns="http://lynq2track.online/services/">
      <OptimiseRouteResult>
        <TimeEstimate>3051</TimeEstimate>
        <DistanceEstimate>26041</DistanceEstimate>
        <RelativeJobOrders>
          <int>1</int>
          <int>0</int>
        </RelativeJobOrders>
        <DistanceValues>
          <int>62</int>
          <int>123</int>
        </DistanceValues>
        <Route>
          <Loc>
            <Lat>59.326462</Lat>
            <Lng>18.071883</Lng>
          </Loc>
          <Loc>
            <Lat>59.311681</Lat>
```

```

        <Lng>18.087504</Lng>
    </Loc>
</Route>
<ProgressPercentage>0</ProgressPercentage>
<Error></Error>
<ErrorArg />
<Directions />
</OptimiseRouteResult>
</OptimiseRouteResponse>
</soap:Body>
</soap:Envelope>

```

GetRouteSchedule

Description

This call can be used to recover the schedule from a given route thanks to its Id.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iRouteId	int	1	ID of route to recover the schedule from	Yes

Request format

HTTP Headers

```

POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/GetRouteSchedule"

```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRouteSchedule
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
    </GetRouteSchedule>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRouteSchedule
      xmlns="http://lynq2track.online/services/">
      <strSessionID>3085633935CCEA8D57A1A6DFA5386EC4</strSes
sionID> <iApplicationID>4</iApplicationID>
      <iRouteId>1</iRouteId>
    </GetRouteSchedule>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetRouteScheduleResponse
      xmlns="http://lynq2track.online/services/">
      <GetRouteScheduleResult>
        <ID>2</ID>
        <Sundays>false</Sundays>
        <Mondays>false</Mondays>
        <Tuesdays>false</Tuesdays>
        <Wednesdays>false</Wednesdays>
        <Thursdays>false</Thursdays>
        <Fridays>true</Fridays>
        <Saturdays>false</Saturdays>
        <AssignWorker>false</AssignWorker>
      </GetRouteScheduleResult>
    </GetRouteScheduleResponse>
  </soap:Body>
</soap:Envelope>
```


SetRouteSchedule

Description

This call can be used to recover the schedule from a given route thanks to its Id.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
iApplicationID	int	4	ID of application.	Yes
iRouteId	int	1	ID of route to recover the schedule from	Yes
schedule	SetScheduleObject	See typical request	An object representing the schedule	yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx HTTP/1.1
Host: localhost
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://lynq2track.online/services/SetRouteSchedule"
```

HTTP XML Content

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetRouteSchedule
      xmlns="http://lynq2track.online/services/">
      <strSessionID>string</strSessionID>
      <iApplicationID>int</iApplicationID>
      <iRouteId>int</iRouteId>
      <schedule>
        <SetScheduleObject>
          <Sundays>bool</Sundays>
          <Mondays>bool</Mondays>
          <Tuesdays>bool</Tuesdays>
          <Wednesdays>bool</Wednesdays>
          <Thursdays>bool</Thursdays>
          <Fridays>bool</Fridays>
          <Saturdays>bool</Saturdays>
        </SetScheduleObject>
      </schedule>
    </SetRouteSchedule>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ser="http://lynq2track.online/services/">
  <soapenv:Header/>
  <soapenv:Body>
    <ser:SetRouteSchedule> <!--
      Optional:-->
    <ser:strSessionID>A1A4393D99653D5A8BB6467434554C13</ser:strSessionID>
    <ser:iApplicationID>6</ser:iApplicationID>
    <ser:iRouteId>27</ser:iRouteId>
    <ser:schedule> <!--Optional:-->
      <ser:Sundays>>false</ser:Sundays>
      <ser:Mondays>>false</ser:Mondays>
      <ser:Tuesdays>>false</ser:Tuesdays>
      <ser:Wednesdays>>false</ser:Wednesdays>
      <ser:Thursdays>>true</ser:Thursdays>
      <ser:Fridays>>false</ser:Fridays>
      <ser:Saturdays>>false</ser:Saturdays>
    </ser:schedule>
    </ser:SetRouteSchedule>
  </soapenv:Body>
</soapenv:Envelope>
```

Typical Response

```
<soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetRouteScheduleResponse
      xmlns="http://lynq2track.online/services/"> </soap:Body>
</soap:Envelope>
```

DelayedRouteDispatching

Description

This call can be used to create a task in the scheduler. This task will dispatch the given route at the given time. The route must have been assigned workers previously.

If dateOfDispatch is null and overridePreviousDate false, it will create a task with the current saved dispatching date of the route.

If dateOfDispatch is null and overridePreviousDate true it will remove the existing task from the scheduler and dispatching will be canceled.

If dateOfDispatch is not null and overridePreviousDate true, it will remove any existing task from the scheduler for this route, and creates a new one with the given date.

Parameters

Name	Type	Example	Description	Required
strSessionID	string	3085633935CCEA8D57A1A6DFA5386EC4	ID of the session from Login response. Used to authenticate and authorize the request.	Yes
applicationId	int	4	ID of application.	Yes
routeId	int	1	ID of route to schedule the dispatching	Yes
DateOfDispatch	DateTime nullable	2016-09-13T16:07:00	An object representing the schedule	Can be null
OverridePreviousDate	Bool	TRUE	Set to true if you want to override the previous dispatching date. It will remove the previous task from the scheduler if already exist. If True and dateOfDispatch is null it will only remove the previous task and cancel dispatching	Yes

Request format

HTTP Headers

```
POST /ggs/services/Dispatch.asmx
HTTP/1.1 Host: localhost
Content-Type: text/xml;
charset=utf-8 Content-Length:
length
SOAPAction: "http://lynq2track.online/services/DelayedRouteDispatching"
```

HTTP XML Content

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-
envelope" xmlns:ser="http://lynq2track.online/services/">
  <soap:Header/>
  <soap:Body>
    <ser:DelayedRouteDispatching> <!--
      Optional:-->
      <ser:sessionId>string</ser:sessionI
        d>
      <ser:applicationId>int</ser:applica
        tionId>
      <ser:routeId>int</ser:routeId>

      <ser:dateOfDispatch>Datetime</ser:dateOfDispatch>
      <ser:overridePreviousDate>bool</ser:overridePreviousDate>
    </ser:DelayedRouteDispatching>
  </soap:Body>
</soap:Envelope>
```

Typical Request

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-
envelope" xmlns:ser="http://lynq2track.online/services/">
  <soap:Header/>
  <soap:Body>
    <ser:DelayedRouteDispatc
      hing> <!--Optional:--
      >
      <ser:sessionId>1C7C9AAEC4B995DB0A05141802C3360D</ser:sessionId>
      <ser:applicationId>6</ser:applicationId>
      <ser:routeId>30</ser:routeId> <ser:dateOfDispatch>2016-
        09-13T16:07:00</ser:dateOfDispatch>
      <ser:overridePreviousDate>true</ser:overridePreviousDat
        e>
    </ser:DelayedRouteDispatching>
  </soap:Body>
</soap:Envelope>
```

Typical Response

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-
envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <DelayedRouteDispatchingResponse
      xmlns="http://lynq2track.online/services/"> </soap:Body>
</soap:Envelope>
```

Error handling

Errors are returned using standard SOAP faults with the restrictions of the WS-I Basic Profile. This has the benefit that autogenerated .NET client proxy code will throw a SoapException with the error message when such a response is recieved.

Typical Error Response

```
<soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>This is an
exception.</faultstring> <detail/>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

Version History

Version 1.0

Introduction of the SOAP Dispatch Web Service.

Version 1.1

Addition of Routes.

Route and RouteJob objects added. GetRoute, CreateRoute, DeleteRoute and DispatchRoute calls added to the web service.